

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings of claims in the application:

Listing of Claims:

1. (Canceled)

2. (New) A storage system duplication method for copying data from a plurality of primary volumes defined in a first storage system to a secondary storage system, the method comprising:

transmitting the data from said plurality of primary volumes to said secondary storage system, said plurality of primary volumes including first and second primary volumes, said first primary volume being assigned to first paired volumes, said second primary volume being assigned to second paired volumes;

temporarily stopping the transmission of the data of said plurality of primary volumes to said secondary storage system if a data transmission problem is detected for said first paired volumes, and suspending said first and second paired volumes;

creating replications of the data related to said first and second paired volumes within a target volume that is provided in said secondary storage system, and suspending said target volume;

start transmitting the data from said second primary volume to said secondary storage system; and

thereafter, transmitting the data from said first primary volume to said secondary storage system.

3. (New) A remote copy center system including a main center having a copy-source storage control unit for storing data transmitted from a host unit and a remote center having a copy-destination storage control unit for storing the data transmitted from said copy-source storage control unit, said remote copy system comprising:

said copy-source storage control unit having a plurality of primary logical volumes;

said copy-destination storage control unit having a plurality of secondary logical volumes paired with said plurality of primary logical volumes;

a communication line coupling said main center and said remote center for transferring data from said main center to said remote center; and

a plurality of target volumes provided in said copy-destination storage control unit and paired with said plurality of secondary logical volumes,

wherein the paired state between said target volume and said secondary logical volume is transited to a suspended state when the paired state between said primary logical volume and said secondary logical volume becomes the suspended state.

4. (New) The system according to claim 3, wherein said plurality of target volumes hold data corresponding to the data stored in said plurality of secondary logical volumes at a time of suspending said plurality of primary volumes and secondary volumes.

5. (New) The system according to claim 3, wherein said plurality of target volumes hold data mirroring the data stored in said plurality of secondary logical volumes at a time of suspending said plurality of primary volumes and secondary volumes.

6. (New) The system according to claim 3, wherein said plurality of primary logical volumes includes a first logical volume group; said plurality of secondary logical volumes includes a second logical volume group having a replication of said first logical volume group; and wherein said copy-source storage control unit controls paired states of all logical volumes within said first logical volume group and said second logical volume group to be transited into suspended states when said copy-source storage control unit detects a data transmission problem.

7. (New) A remote copy center system duplication method for copying data from a main center having a copy-source storage control unit for storing data transmitted from a host unit to a remote center having a copy-destination storage control unit for storing the data transmitted from said copy-source storage control unit, the method comprising:

transmitting the data from a plurality of primary logical volumes included in said copy-source storage control unit to a plurality of secondary logical volumes included in said copy-destination storage control unit, both of the volumes of which are paired therewith;

temporarily stopping the transmission of the data of said plurality of primary logical volumes to said plurality of secondary logical volumes if a data transmission problem is detected for at least one of said primary logical volumes, and suspending other primary logical volumes than said at least one of said primary logical volumes and other secondary logical volumes paired with said other primary logical volumes;

creating replications of the data related to other secondary logical volumes paired with said other primary logical volumes within at least one of target volumes paired with said other secondary logical volumes, and suspending said at least one of target volumes and said other secondary logical volumes;

start transmitting the data from said other primary logical volumes to said secondary logical volumes paired with said other primary logical volumes; and

thereafter, transmitting the data from said at least one of primary logical volumes used to be the problem to said secondary logical volumes paired with said at least one of primary logical volumes.

8. (New) A remote copy center system duplication method for copying data from a main center having a copy-source storage control unit for storing data transmitted from a host unit to a remote center having a copy-destination storage control unit for storing the data transmitted from said copy-source storage control unit, the method comprising:

transmitting the data from a plurality of primary logical volumes to a plurality of secondary logical volumes, both of which are paired therewith;

temporarily stopping the transmission of the data of said plurality of primary logical volumes to said plurality of secondary logical volumes if a data transmission problem is

detected for at least one of said primary logical volumes, and suspending other primary logical volumes than said at least one of said primary logical volumes and other secondary logical volumes paired with said other primary logical volumes;

creating replications of the data related to other secondary logical volumes paired with said other primary logical volumes within at least one of target volumes paired with said other secondary logical volumes, and suspending said at least one of target volumes and said other secondary logical volumes;

start transmitting the data from said other primary logical volumes to said secondary logical volumes paired with said other primary logical volumes;

thereafter, transmitting the data from said at least one of primary logical volumes used to be the problem to said secondary logical volumes paired with said at least one of primary logical volumes; and

transiting paired states between said secondary logical volumes and said target logical volumes to duplex states.